

## EAST Search History

| Ref # | Hits   | Search Query   | DBs                             | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|---------------------------------|------------------|---------|------------------|
| L1    | 63     | (disc or disk) near centering near (device or system)  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:37 |
| L2    | 48     | YEOM-KI-KEON.in. or<br>CHOI-SANG-JIN.in. or<br>KO-SANG-CHUL.in. or<br>KIM-SOO-HYUNG.in. or<br>HA-TAE-HOE.in. | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:35 |
| L3    | 5      | L1 and L2  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:36 |
| L4    | 2930   | chuck near collet  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:40 |
| L5    | 0      | 1 and 4  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:36 |
| L6    | 0      | 2 and 4  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:36 |
| L7    | 122193 | (disc or disk) with center\$3  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:38 |
| L8    | 86     | 4 and 7  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:39 |
| L9    | 4191   | (disc or disk) near push\$3  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:38 |
| L10   | 3      | 8 and 9  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:40 |
| L11   | 75     | 8 and @ad<"20021224"   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:39 |
| L12   | 0      | 2 and 8  | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:39 |
| L13   | 3      | 4 and 9  | US-PGPUB;<br>USPAT;<br>USOCR    | OR               | ON      | 2007/12/06 09:40 |
| L14   | 7      | (chuck near collet) with (grab\$3 or<br>reliev\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR               | ON      | 2007/12/06 09:41 |

## EAST Search History

|     |   |          |                                 |    |    |                  |
|-----|---|----------|---------------------------------|----|----|------------------|
| L15 | 0 | 7 and 14 | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | ON | 2007/12/06 09:41 |
|-----|---|----------|---------------------------------|----|----|------------------|